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United States Patent [19][11] **Patent Number:** **5,190,653****Herrick et al.**[45] **Date of Patent:** **Mar. 2, 1993**[54] **COFFEE BREWER FILTRATION DEVICE**

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Primary Examiner—Robert A. Dawson*Assistant Examiner*—W. L. Millard*Attorney, Agent, or Firm*—Thomas R. Savoie[21] **Appl. No.:** 606,040[57] **ABSTRACT**[22] **Filed:** Oct. 30, 1990[51] **Int. Cl.⁵** B01D 29/085[52] **U.S. Cl.** 210/477; 210/282;
210/494.2; 210/498; 210/499; 426/77[58] **Field of Search** 210/477, 482, 488, 489,
210/490, 494.1, 494.2, 495, 498, 499; 426/77[56] **References Cited****U.S. PATENT DOCUMENTS**

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A reusable filtration element for a coffee brewer has a microscopic arrangement of holes which permit coffee beverage to pass through while turbidity and sediment causing solids are effectively removed. The holes are preferably from 12 to 60 microns across and provide from 5 to 30 % open area in the filter element. In one preferred embodiment, the holes are circular, arranged in rows such that intersecting rows form an angle of 60°, and preferably taper from top to bottom. A preferred filtration element is preferably formed by photoetching stainless steel foil. The filtration element is preferably positioned over a foraminous support.

20 Claims, 2 Drawing Sheets